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TITLE: MEASUREMENT SYSTEM FOR CHATTERING TIME
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ABSTRACT:

PURPOSE: To accurately measure the duration of the chattering of an electromechanical contact point and to perform a numerical judgement by keeping on updating and storing the counted value of an up counter by a latch circuit during the continuation of the chattering.

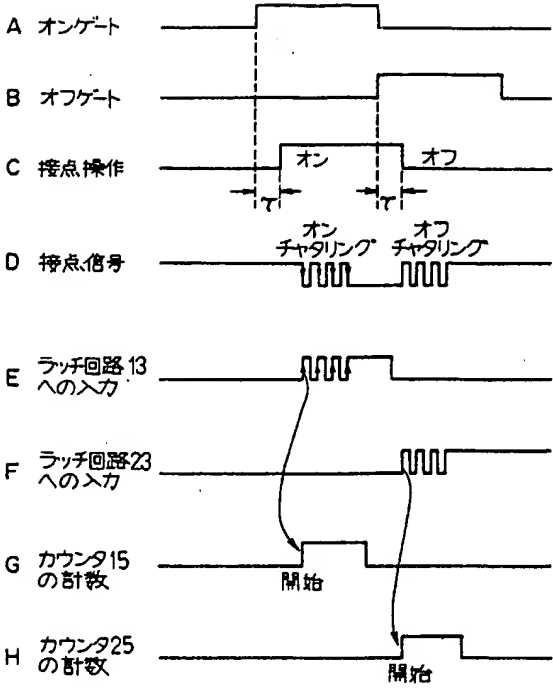
CONSTITUTION: A measuring instrument consists of up counters 15 and 25 which count output pulses of a clock pulse oscillator 3, and latch circuits 13 and 14, 23 and 24, etc., which store their countered values. When the electromechanical contact point 1 enters a chattering state, the counter 15 counts pulses from the oscillator 3. For example, when the rising variation of the chattering is detected, the counted value of the rising counter 15 is zero, so zero is stored in the circuit 14. In next chattering rising, the counter counts up to a certain value, so the circuit 14 stores the value. Further, the counted value of the counter 15 at the time of next chattering is updated and stored in the circuit 14. When a constant current flows after the chattering, the new counting of the counter 15 and the updating of the circuit 14 are not performed, so the stored value is read out to obtain the value corresponding to the chattering time.

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The diagram shows a control system with three main components: a '格納手段' (Storage means) labeled 4, a '計数手段' (Counting means) labeled 2, and a 'クロックパルス発振器' (Clock pulse generator) labeled 3. The '格納手段' 4 is connected to the '計数手段' 2. The '計数手段' 2 is connected to the 'クロックパルス発振器' 3. A switch labeled 1, controlled by '電気機械的接点' (Electromechanical contacts), is connected to the 'クロックパルス発振器' 3 and a ground symbol.

[illegible]

実施例の図
第 2 図



動作波形図
第 3 図